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TITLE : DEHYDRATING AND FLOCCULATING AGENT FOR SLUDGE

ABSTRACT : PURPOSE: To enhance the dehydration and flocculation effect of sludge by utilizing pumice and volcanic ashes as a main raw material and adding sulfuric acid thereto, heating and agitating the mixture and thereafter filtering it to obtain the extracted liquid and mixing ferric chloride with this extracted liquid to prepare a dehydrating and flocculating agent.

CONSTITUTION: When tuff is utilized as a raw material to produce a dehydrating and flocculating agent of sludge, tuff (Oya-isi) is crushed into mean 200 mesh and sufficiently washed with water and roasted at $\geq 350^{\circ}\text{C}$. This roasted powdery tuff and dilute sulfuric acid of 60% are prepared at equal amount and introduced into a glass vessel fitted with an agitator and heated at 150°C and agitated for 2 hours. This mixture is filtered by a vacuum filter utilized with a glass fiber filter. Ferric chloride liquid of 45% is added at 15% by weight ratio to the obtained filtrate and this mixture is agitated and diluted with water of four-times amount. The liquid obtained by such a way is intactly utilized as a dehydrating and flocculating agent. The loadings of the obtained dehydrating and flocculating agent are regulated to the slight amount. Dehydration performance, flocculation performance and clarification performance are made excellent.

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